## In the Claims

Claim 1 (currently amended): A final foamed product primarily of a PET matrix composition of recycled materials, said PET matrix composition consisting essentially of a micro cellular closed cell composite with discontinuous voids, said PET matrix composition comprising:

recycled polyethylene terephtalate (PET);

a branching agent; and

elastomeric material comprising recycled tires; and

said final foamed product is selected from the group consisting of: a docking post, telephone pole, beam, deck, boat slip, pier, stake, shovel, rake, ax handle, hammer, handles, shingle, baseball bat, and cricket bat.

Claim 2 (currently amended): A final foamed product in accordance with claim 1 wherein:

said PET comprises recycled plastic bottles comprising PET; and

said final foamed product comprises polyolefin selected from the group consisting of recycled milk jugs and recycled plastic toys.

Claim 3 (canceled)

Claim 4 (currently amended): A final foamed product in accordance with claim 13 wherein said elastomeric material further comprises ethylene propylene diene monomer (EPDM) at least one member selected from the group consisting of: ethylene-propylene-diene, recycled wiper blades, recycled vehicle seals, recycled refrigerator seals, and recycled door gaskets.

Claims 5-9 (canceled)

Claim 10 (currently amended): A final foamed product selected from the group consisting of a micro cellular closed cell composite with discontinuous voids, an open cell

composite with semi-continuous voids, and combinations thereof, said final foamed product having a composition, comprising by weight:

from about 5% to about 95% <u>recycled</u> polyethylene terephthalate (PET) with an inherent viscosity (I.V.) from about 0.4 to about 0.9, <u>said recycled PET comprising</u> recycled PET bottles; and

from about 5% to about 50% elastomeric-containing material selected from the group consisting of styrene-butadiene, polybutadiene, polyisoprene, and natural rubber, said elastomeric material comprising granulated or pulverized recycled tires; and

from about 0.05% to about 2% of a branching agent providing a chain extending agent selected from the group consisting of pyromellitic dianhydride, trimellitic anhydride, benzophenonetetracarboxylic acid dianhydride, sulfonyldiphthalic acid dianhydride, 2, 2-bis (2-oxazoline), and pentaerythritol.

Claim 11 (currently amended): A final foamed product having a composition in accordance with claim 10 comprising by weight:

from about 20% to about 80% recycled PET comprising said recycled PET bottles with an inherent viscosity from about 0.5 to about 0.8; and

from about 10% to about 45% elastomeric-containing material <u>comprising</u> said granulated or <u>pulverized recycled tires</u> with a density from about 0.9 to about 0.96 g/cc.

Claim 12 (currently amended): A final foamed product having a composition in accordance with claim 10 comprising:

from about 30% to about 60% <u>recycled PET comprising said recycled PET</u> bottles with an inherent viscosity from about 0.6 to about 0.7; and

from about 20% to about 40% elastomeric-containing material comprising said granulated or pulverized recycled tires.

Claim 13 (currently amended): A final foamed product in accordance with claim 10:

said final foamed product comprises a foamed railroad tie; and

said final foamed product-includesing at least one foaming agent selected
from the group consisting of: carbon dioxide, nitrogen, argon, cyclopentane, and a
fluorocarbon partially substituted with chlorine, bromine, or iodine.

Claim 14 (currently amended): A final foamed product in accordance with claim 10 comprising by weight:

from about 0% to about 25% polyolefin selected from the group consisting of polyethylene and polypropylene;

a compatibilizing agent comprising at least one binder selected from the group consisting of about 0% to about 6% Hytel-type binder comprising thermoplastic polyester elastomer of comprising polybutylene terephthalate (PBT) and polytetrahydrofusan glycol; from about 0% to about 3% a maleated polyolefin binder selected from the group consisting of polyethylene and polypropylene; and from about 0% to about 1% a polyester elastomer binder comprising polybutadienediaol (PDS);

from about 0.05% to about 2% of a branching agent providing a chain extending agent selected from the group consisting of pyromellitic dianhydride, trimellitic anhydride, benzophenonetetracarboxylic acid dianhydride, sulfonyldiphthalic acid dianhydride, 2, 2-bis (2-oxazoline), and pentaerythritol;

from about 0% to about 3%-a hydrolytic resistance agent selected from the group consisting of 2, 2'-bis (2-oxazoline), poly (1, 3, 5-triisopropylphenylene-2, 4-carbondiimide, N, N'-bis (2, 6-disopropylphenyl) carbodiimide, and 2, 6, 2', 6'-tetraisopropyldipheyl carbodiimide; and

from about 0% to about 30% filler comprising additives selected from the group consisting of tale, silica, colorant, glass fibers, carbon black, and calcium carbonate.

Claim 15 (currently amended): A final foamed product in accordance with claim 14 comprising by weight:

from about 0% toless than about 15% polyolefin;

a compatibilizing agent comprising at least one binder selected from the group consisting of about 1% to about 5% Hytel-type binder thermoplastic polyester elastomer, from about 1% to about 2% maleated polyolefin binder, and from about 0.1% to about 0.8% polyester elastomer binder;

from about 0.2% to about 1% branching agent; from about 0.2% to about 2% hydrolytic resistance agent; and from about 0% toless than about 25% filler.

Claim 16 (currently amended): A final foamed product in accordance with claim 14 comprising by weight:

from about 0% toless than about 5% polyolefin;

a compatibilizing agent comprising at least one binder selected from the group consisting of about 2% to about 4% Hytel-type binder thermoplastic polyester elastomer, from about 0.5% to about 1.5% maleated polyolefin binder, and from about 0.3% to about 0.6% polyester elastomer binder;

from about 0.3% to about 0.6% branching agent; from about 0.5% to about 1% hydrolytic resistance agent; and from about 0% toless than about 20% filler.

Claim 17 (currently amended): A final foamed product in accordance with claim 14 wherein said polyolefins comprise recycled products selected from the group consisting of: bottle-base cups, bottle caps, labels, milk jugs, garbage bags, scrap sheeting, plastic bottles, and plastic toys.

Claim 18 (canceled)

Claim 19 (currently amended): A final foamed product having a composition in accordance with claim 18 <u>further comprises at least one member further comprising ethylene-propylene diene monomer (EPDM)</u> selected from the group consisting of <u>recycled</u> vehicle wiper blades, <u>recycled</u> door gaskets, <u>recycled</u> vehicle seals, and <u>recycled</u> refrigerator seals.

Claim 20 (currently amended): A final foamed product in accordance with claim 10 wherein said final foam product is - selected from the group consisting of: a <u>foamed</u> railroad tie, <u>foamed</u> post, <u>foamed</u> beam, <u>strut</u>, <u>plank</u>, <u>foamed</u> pole, <u>dock support</u>, <u>foamed</u> deck, <u>foamed</u> boat slip, <u>foamed</u> pier, <u>foamed</u> stake, <u>foamed</u> shovel, <u>foamed</u> rake, <u>foamed</u> ax handle, <u>foamed</u> hammer, <u>foamed</u> handle, <u>foamed</u> shingle, <u>foamed</u> baseball bat, and <u>foamed</u> cricket bat.

Claim 21 (canceled)